

CLAIMS:

1. An organic electroluminescent device, comprising:
an organic electroluminescent element, wherein the
5 organic electroluminescent element has a pair of electrodes
and an electroluminescent layer provided between the
electrodes, wherein the electroluminescent layer contains at
least two types of phosphorescent materials, and wherein
each phosphorescent material emits light the color of which
10 is different from the color of light emitted by the other
phosphorescent material; and

a drive unit that is electrically connected to the
organic electroluminescent element, wherein the drive unit
supplies to the organic electroluminescent element a current
15 that has a modulated pulse width and a constant amplitude,
thereby causing the organic electroluminescent element to
emit light.

2. The organic electroluminescent device according to
20 claim 1, wherein the drive unit controls the gradation of
brightness of the organic electroluminescent element by a
time gradation method.

3. The organic electroluminescent device according to
25 claim 1, wherein the drive unit controls the gradation of
brightness of the organic electroluminescent element by a
time gradation method and an area gradation method.

4. An organic electroluminescent device, comprising:
30 an organic electroluminescent element, wherein the
organic electroluminescent element has a pair of electrodes
and an electroluminescent layer provided between the
electrodes, wherein the electroluminescent layer contains at
least two types of phosphorescent materials, wherein each
35 phosphorescent material emits light the color of which is

different from the color of light emitted by the other phosphorescent material; and

a drive unit that is electrically connected to the organic electroluminescent element, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by an area gradation method.

5. The organic electroluminescent device according to claim 4, wherein the current supplied from the drive unit to the organic electroluminescent element has a constant current density.

6. An organic electroluminescent device, comprising:
an organic electroluminescent element, wherein the organic electroluminescent element has a pair of electrodes and at least two electroluminescent layers provided between the electrodes, wherein each electroluminescent layer contains a phosphorescent material, and wherein the phosphorescent material contained in each electroluminescent layer emits light the color of which is different from the color of light emitted by the phosphorescent material of the other electroluminescent layer; and

a drive unit that is electrically connected to the organic electroluminescent element, wherein the drive unit supplies to the organic electroluminescent element a current pulse having a modulated pulse width and a constant amplitude, thereby causing the organic electroluminescent element to emit light.

7. The organic electroluminescent device according to claim 6, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by a time gradation method.

8. The organic electroluminescent device according to

claim 6, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by a time gradation method and an area gradation method.

5 9. An organic electroluminescent device, comprising:
 an organic electroluminescent element, wherein the
 organic electroluminescent element has a pair of electrodes
 and at least two electroluminescent layers provided between
 the electrodes, wherein each electroluminescent layer
10 contains a phosphorescent material, and wherein the
 phosphorescent material contained in each electroluminescent
 layer emits light the color of which is different from the
 color of light emitted by the phosphorescent material of the
 other electroluminescent layer; and
15 a drive unit that is electrically connected to the
 organic electroluminescent element, wherein the drive unit
 controls the gradation of brightness of the organic
 electroluminescent element by an area gradation method.

20 10. The organic electroluminescent device according to
 claim 9, wherein the current supplied from the drive unit to
 the organic electroluminescent element has a constant
 current density.

25 11. An organic electroluminescent device, comprising:
 an organic electroluminescent element, wherein the
 organic electroluminescent element has a pair of electrodes
 and an electroluminescent layer provided between the
 electrodes, wherein the electroluminescent layer contains at
30 least two types of fluorescent materials, and wherein each
 fluorescent material emits light the color of which is
 different from the color of light emitted by the other
 fluorescent material; and

 a drive unit that is electrically connected to the
35 organic electroluminescent element, wherein the drive unit

supplies to the organic electroluminescent element a current pulse that has a modulated pulse width, a constant amplitude, and a current density equal to or more than 1 A/cm², thereby causing the organic electroluminescent element to emit light.

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12. The organic electroluminescent device according to claim 11, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by a time gradation method.

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13. The organic electroluminescent device according to claim 11, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by a time gradation method and an area gradation method.

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14. An organic electroluminescent device, comprising:
an organic electroluminescent element, wherein the organic electroluminescent element has a pair of electrodes and an electroluminescent layer provided between the electrodes, wherein the electroluminescent layer contains at least two types of fluorescent materials, and wherein each fluorescent material emits light the color of which is different from the color of light emitted by the other fluorescent material; and

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a drive unit that is electrically connected to the organic electroluminescent element, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by an area gradation method.

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15. The organic electroluminescent device according to claim 14, wherein the current supplied from the drive unit to the organic electroluminescent element has a constant current density.

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16. An organic electroluminescent device, comprising:

an organic electroluminescent element, wherein the organic electroluminescent element has a pair of electrodes and at least two electroluminescent layers provided between the electrodes, wherein each electroluminescent layer
5 contains a fluorescent material, and wherein the fluorescent material contained in each electroluminescent layer emits light the color of which is different from the color of light emitted by the fluorescent material of the other electroluminescent layer; and

10 a drive unit that is electrically connected to the organic electroluminescent element, wherein the drive unit supplies to the organic electroluminescent element a current pulse that has a modulated pulse width, a constant amplitude, and a current density equal to or more than 1 A/cm^2 , thereby
15 causing the organic electroluminescent element to emit light.

17. The organic electroluminescent device according to claim 16, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by a
20 time gradation method.

18. The organic electroluminescent device according to claim 16, wherein the drive unit controls the gradation of brightness of the organic electroluminescent element by a
25 time gradation method and an area gradation method.

19. An organic electroluminescent device, comprising:
an organic electroluminescent element, wherein the organic electroluminescent element has a pair of electrodes
30 and at least two electroluminescent layers provided between the electrodes, wherein each electroluminescent layer contains a fluorescent material, and wherein the fluorescent material contained in each electroluminescent layer emits light the color of which is different from the color of
35 light emitted by the fluorescent material of the other

electroluminescent layer; and

a drive unit that is electrically connected to the organic electroluminescent element, wherein the drive unit controls the gradation of brightness of the organic

5 electroluminescent element by an area gradation method.

20. The organic electroluminescent device according to claim 19, wherein the current supplied from the drive unit to the organic electroluminescent element has a constant

10 current density.